

# Lift-N-Glide™ Manual



Lift-N-Glide™

**Lifter Serial Number:** \_\_\_\_\_

Lift Mast Serial Number: \_\_\_\_\_

Intermediate Member Serial No: \_\_\_\_\_

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# 1 Introduction

**Lift-N-Glide™** is a registered trademark of R on I, Inc, Charlotte, North Carolina.

**NOTE:** It is important that you read and fully understand this manual before using your Lift-N-Glide™ Lifter. If you have any questions contact your distributor or the manufacturer.

## GENERAL DATA

- Type
- Total Lift Capacity
- Certification
- Material
- Weighted average for vibrations during operation
- Operational Sound Level
- Declaration of Conformity
- Labeling
- Lift-N-Glide™ 19000 Series
- Maximum 350-lbs (includes weight of load and end-effector)
- CE Marked
- Lift Mast: Aluminum – Anodized
- Handlebar: Steel or Stainless Steel
- End-Effector: Stainless Steel (304), Aluminum, Other
- Not to exceed 2.5 m/s<sup>2</sup>
- Not to exceed 70 dB (A)
- Delivered with each lifter
- Manufacturer
- Year of Manufacture
- Serial Number

**WORKING ENVIRONMENT:** The Lift-N-Glide™ is intended to assist you with lifting loads where a fork truck would be considered too heavy and cumbersome. You will not only be able to prevent work injuries, but also increase productivity.

**FLEXIBLE:** The Lift-N-Glide™ will lift just about anything with a maximum weight as noted above. The lifter can be equipped with forks, platforms, etc. in order to fit your needs and applications.

**SAFETY:** Lift-N-Glide™ is ergonomically designed, which in itself becomes a passive safety factor.

Active safety consists of the following: The load platform will stop when lowered onto an object. Overloading of the platform is not possible because the platform will automatically stop if load exceeds preset limits.

The handlebars are designed to protect your hands should you engage an edge, wall or object.

**SERVICE:** The Lift-N-Glide™ is constructed to be as easy to service as possible. Moving parts and the electronics are easy to access. This manual consists of not only instructions but also a spare part list with drawings. The Lift-N-Glide™ is built in modules making service possible with component exchange.

**RECYCLABLE:** The Lift-N-Glide™ is manufactured of recyclable and therefore environmentally friendly materials. Your selection of our lifting device therefore takes consideration of the environment.

When discarding, deposit frame at appointed stations (varies from country to country) in order to ensure recycling and safe handling of the all the parts of the product.

## 2 Safety

- Before use, read the manual in order to enjoy the lifter fully.
- Do not use to lift people.
- When moving the lifter, the end-effector is to be at its lowest possible height.

## 3 Warranty

The warranty is valid for one (1) year from delivery for material and manufacturing defects.

In order for the warranty to be valid, the lifter must have been maintained according to instructions. This warranty does not cover normal maintenance, adjustments or regular adjustments according to the instructions.

Damages due to recklessness use or incorrect use of the equipment automatically voids the warranty.

### 3.1 Warranty

The warranty on the equipment is valid for one (1) year from the date of shipment. It warrants the end-effector to be free from defects in material and workmanship.

For the warranty to be valid all maintenance according to the instruction manual must have been carried out. This warranty does not cover normal maintenance, calibration or regular adjustments as specified in the operating instructions.

Abuse and/or careless operation will make this warranty invalid.

This warranty is exclusive and is in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, each of which is hereby expressly disclaimed.

## 4 Discarding

After many years of service, your lifter can be discarded in such a way to save the environment. The frame can be deposited at special stations (varies from country to country)

## 5 Instruction

Use the lifter properly in order to avoid work injuries from lifting.

### 5.1 Charging

**The lifter is to be charged every night**, over weekend, holidays and longer periods when not in use **or the batteries will go dead**. In this way you are ensured a fully charged lifter at all times.

**Attention! If you do not charge the batteries after each duration of use, the batteries can be harmed. It is not possible to overload them.**

- Always charge in a dry area.
- Disconnect lift motor power cable from Electronic Power Pack
- Connect charger to Electronic Power Pack. Lamps on charger will not light up.
- Connect the charger to wall outlet. A red and yellow lamp will go on when charging.

**Attention! Do not operate the device while charging.**

- A green lamp will go on when charging is complete.
- The yellow lamp flashes when the battery is 80% charged, battery now is on trickle charge.
- Disconnect charger from wall outlet.
- Disconnect charger from Electronic Power Pack.

Red lamp = 110 volt voltage is connected.

Green lamp = Charged and maintenance charging to keep level high.

**Note: Steps to follow to eliminate potential sparking when connecting charger to Electronic Power Pack:**

- Disconnect lift motor power cable from Electronic Power Pack.
- Discharge Electronic Power Pack capacitor by engaging the “Up/Down” pushbutton on the remote controller.
- Connect charger to Electronic Power Pack.
- Connect charger to wall outlet.

**Attention! Charger is not to be exposed to water.**

## **5.2 Handle**

The handle is easily adjustable to any desired height.

## **5.3 Mast**

### **IMPORTANT!**

**Maximum load capacity is as noted on the lift mast  
The lifting device may not be used for lifting persons**

Use the remote control to lift or lower the end-effector.

Place the load on the end-effector. **The load shall always be centered and as close to the mast as possible for stability.**

## **5.4 Assembling the Electronic Power Pack, Handlebar and Remote Control**

Modules: 1 piece upper lock (5), 1 piece power pack (12), 1 piece grip (13), and 1 piece remote control

- 1 Guide the upper lock nut of the power pack into (5) the tracks of the back of the mast, the knob shall be on top (slightly off center)
- 2 Lift the power pack (12) by lifting the upper lock (5); slide the power pack (12) so its lower fastening hook fastens at the bottom of the mast. Lower the upper connector (5) until it covers the top of the power pack mounting detent and tighten.
- 3 Plug in the connector to the front of the power pack. Cable with plug to motor (black connector with red handle).
- 4 Insert the handle slides into the two slots in the back of the lift mast and slide down the handle and secure at the desired height.
- 5 Connect the remote control device to the power pack (12). The plug shall be on the right front side (the same side as the plug for the motor).
- 6 The lifter is now ready for use.

## 5.5 Mast

### **IMPORTANT!**

**Maximum load capacity is as noted on the lift mast  
The lifting device may not be used for lifting persons**

Use the remote control to lift or lower the end-effector.

Place the load on the end-effector. **The load shall always be centered and as close to the mast as possible for stability.**

## 5.6 Moving

Always lower the end-effector to the lowest possible position before moving.

**Attention! Note that end-effectors do not always completely reach the floor.**

# 6 Maintenance

In order to have a long lasting product please take note of the following.

### **Every day**

Wipe the lifter down with a wet cloth using a non-aggressive cleanser. Do not use any high pressure cleaning equipment. This will damage the product.

### **Every month or when necessary.**

Make sure the handle stays in place by tightening the bolts by hand.

### **Every year**

1. Electronic connections: Check all the connections and take care of any damages.
2. Nuts and bolts: Make sure everything is tight.
3. Mast: Remove mast from frame, see 5.2 but in opposite order. Undo the four bolts on the upper end lid and pull out the entire screw unit. Undo the end pieces from the holder and check the bearing, add lubricant as necessary. Mount it back into place. Dry the screw and check the nut and coupling to make sure it is not too worn and wobbles. Lubricate the screw with lubricant intended for ball bearings. Should the brushes be dirty and need cleaning, simply pull them out. Clean the inside of the profile and reassemble all components. Place the mast back in place see under 5.2 Mounting, and check the load platform and the coupling of the slide.
4. Signs: Make sure all signs are in place and readable.

## 7 Trouble Shooting

Lift-N-Glide™ is designed for effective and reliable performance providing the maintenance instructions are followed. Should problems occur, follow the checklist below. If problems persist, please contact your distributor.

### Symptom

**1** Motor is not functioning

Check the following.

Outlet ok while charging.

### Action

**A** Check the voltage which should be 24 volt.

**B** There is a 30 Amp fuse in the power pack

**C** Make sure connections with motor are ok.

**D** Make sure connections to battery charger and wall

**E** Make sure the lamp on the battery charger is lit, see 8.1 Charging.

**2** The platform does not move, but motor works.

**A** Check above #1.

**B** Make sure **Maximum Load Weight** is not exceeded.

**C** Make sure the mast is in place. See 5.2 Mounting.

**3** The load platform moves slowly.

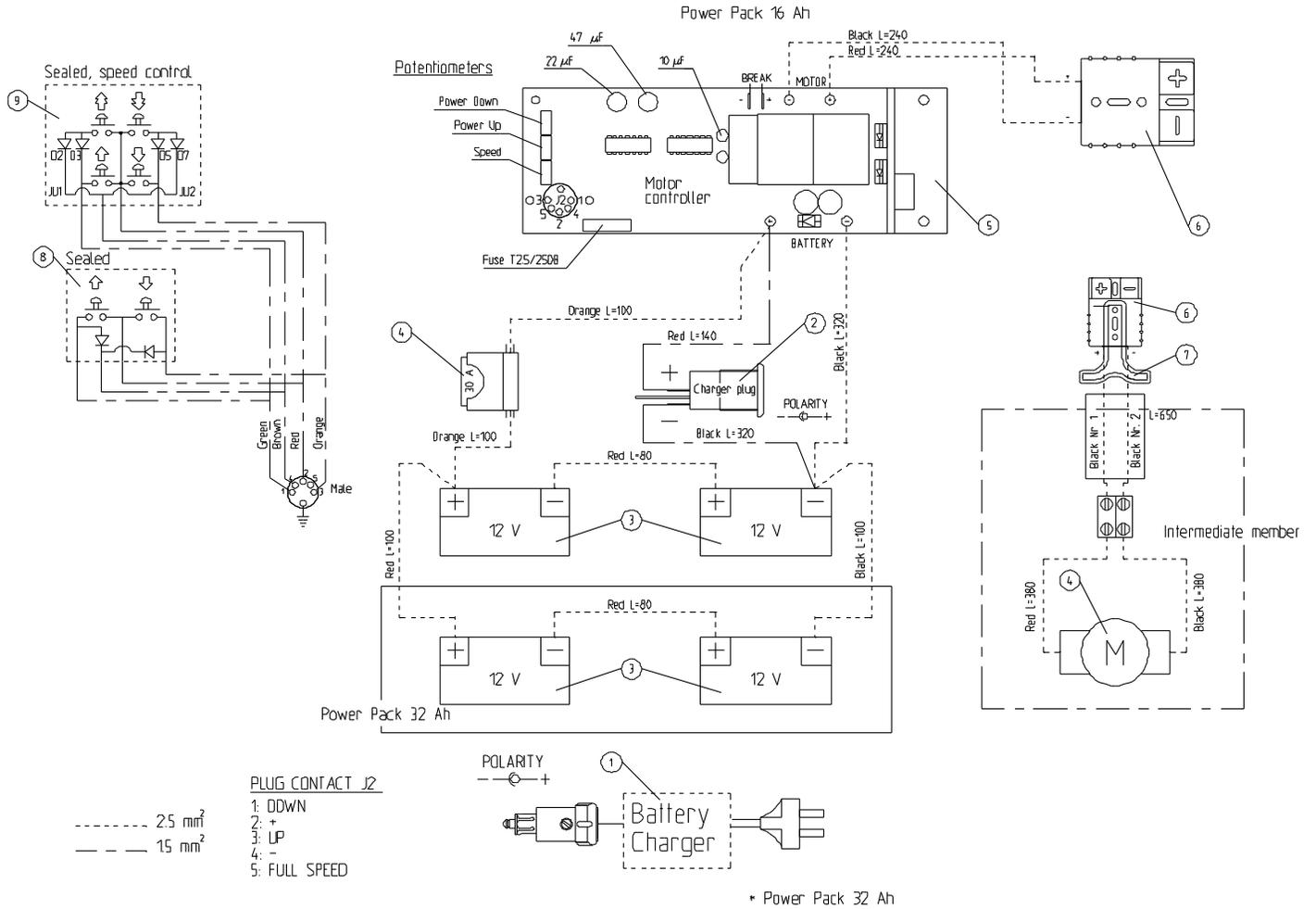
**A** See above #1, Action 1A, 1C, 1D and 1E.

**4** The lifting device sounds strange while lifting/lowering.

**A** Check 9. Maintenance.

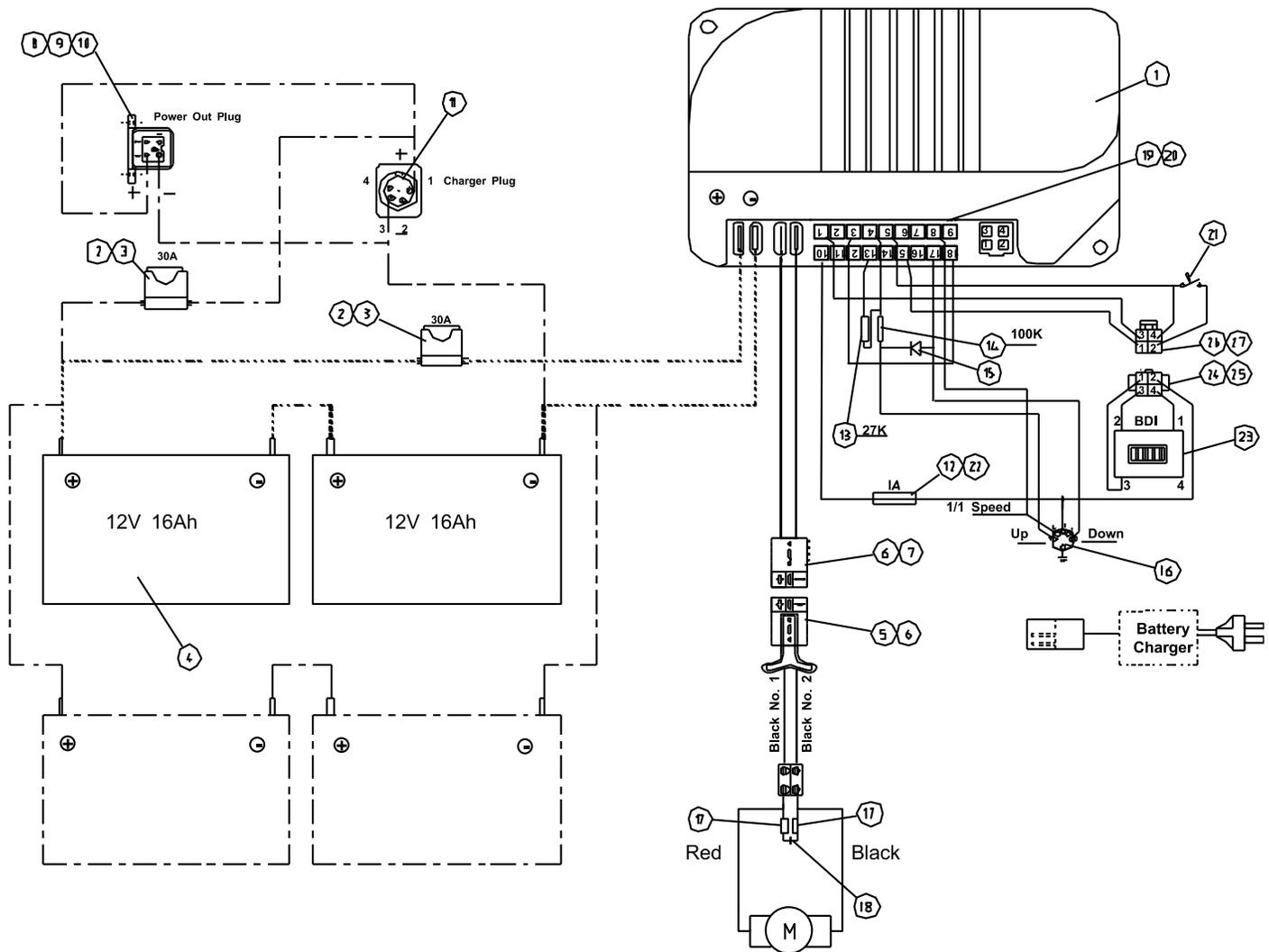
# 8 Electrical Schematics

## 8.1 19139 Electronic Power Pack



Item	Qty	Description	Part No.
1	1	Battery Charger 24VDC/115V-24VDC/230V	2403SRL
2	1	Connector Plug	17327
3	2	Battery A512/16G	19138
4	1	Fuse	T30A
5	1	Motor Controller BG7 24V35A	19122
6	2	Motor Plug	19154
7	1	Handle	19160
8	1	Remote Controller – 2 Button	17272
9	1	Remote Controller – 4 Button	17273

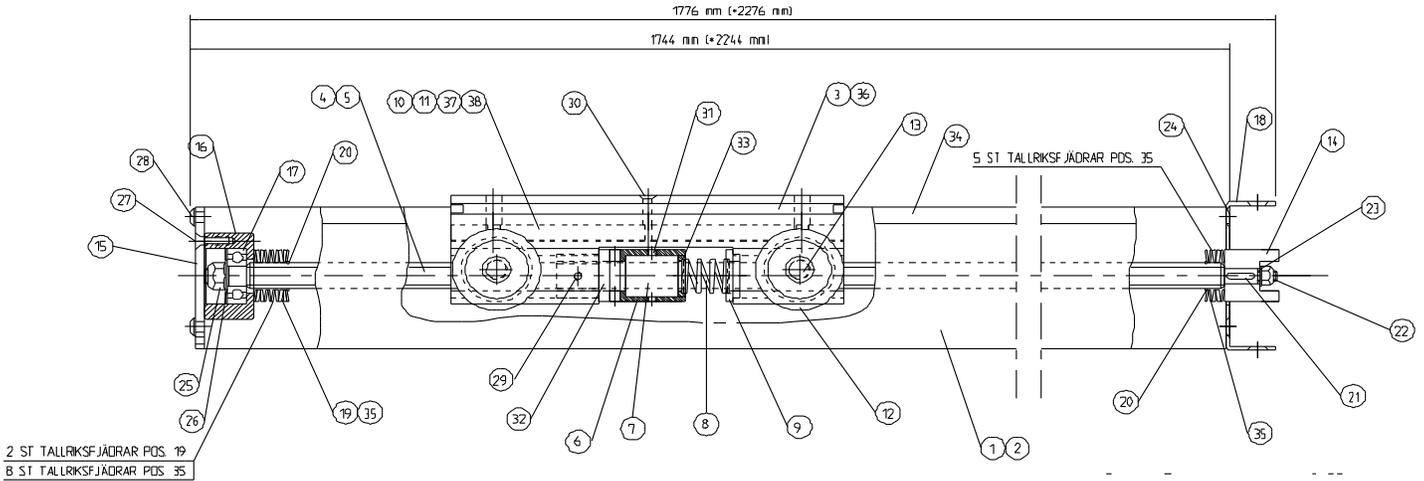
### 8.2 19139B Electronic Power Pack



Item	Qty	Description	Part No.	Item	Qty	Description	Part No.
1	1	Motor Controller 24V-4.5A	19122A	15	1	Diode	17334
2	2	Fuse 30A	13066	16	1	Connector	ELFA 42-206-04
3	2	Fuse Holder	ELFA 33-166-19	17	2	Resistor 4.7 Ohm, 6W	ELFA 60-761-60
4	2(4)	Battery 12V -17Ah	19130	18	1	Capacitor 10 nF. 500V	
5	1	Handle	19160	19	1	Connector	5557-18R
6	2	Motor Plug	19154	20	7	Pin	5554-T2L
7	4	Brush	19155	21	1	Pushbutton Switch-Red	19138B-15
8	1	Housing	17270-11	22	1	Fuse Holder	ELFA 33-152-49
9	1	Connector	17270-09	23	1	Voltmeter	19139B-14
10	1	Cover-Female	17270-14	24	1	Connector	ELFA 44-190-99
11	1	Chassis Charger Plug	19139B-12	25	4	Pin	ELFA 44-190-32
12	1	Fuse 1A	ELFA 33-050-03	26	1	Connector	ELFA 44-190-81
13	1	Resistor 1/2W 27K	ELFA 60-126-60	27	4	Pin	ELFA 44-190-24
14	1	Resistor 1/2W 100K	ELFA 60-128-50				

# 9 Spare Parts

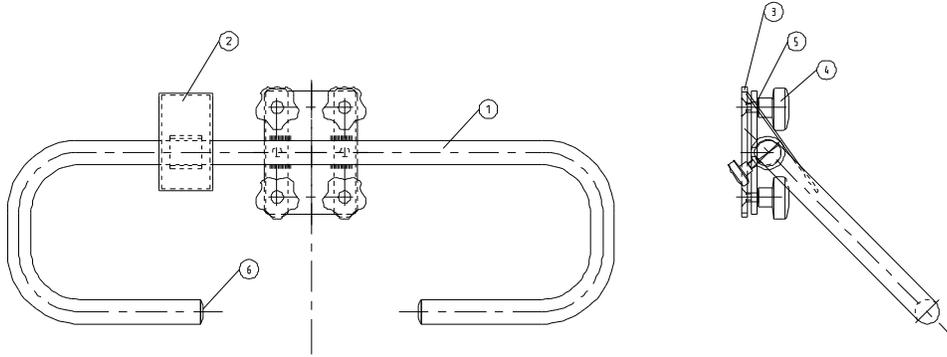
## 9.1 Mast



Standard 1744 Part No. 19152, Long 2244 Part No. 19153,  
Standard, Long Slide Part No. 19152 HD, Long, Long Slide Part No. 19153 HD

Item No.	Qty	Description	Part No.	Item No.	Qty	Description	Part No.
1	1	Mast 1730	19148	20	2	Lock Ring	19107
2	1	Mast 2230	19149	21	1	Key 20x4	19151
3	1	Slide 280	19106	22	1	Nut	LM 982 M8
4	1	Lift Screw 1766	19142	23	1	Washer	BRB 8.4 HB200 FxB
5	2	Lift Screw 2266	19143	24	4	Screw	MF65 M8x20 FxB
6	1	Screw Coupling	19109	25	1	Nut	LM 982 M12
7	1	Nut	19150	26	1	Washer	BRB 13HB 200 FxB
8	1	Spring	19105	27	3	Screw	MFS M6x20 FxB
9	1	Spring Guide	19112	28	4	Screw	K65 M8x20 FxB
10		N/A		29	1	Stop Screw SK6SS	SK6SS M5x10
11	4	Lock bar 2/8-280	19125	30	1	Screw	MF6S M6x30 FxB
12	4	Wheel	19115	31	1	Stop Screw T6SS	T6SS M6x6
13	1	Wheel Axle	19116	32	1	Coupling	19110
14	1	Rotex Coupling	19121	33	1	Spring Coupling	19111
15	1	Top Cover	10113	34	2	Brush	19123
16	1	Bearing Holder	19114	35	13	Spring Washer 40x20x15	19175
17	1	Bearing	19102	36	1	Slide 380	19176
18	1	Bottom Cover	19128	37		N/A	

## 9.2 Handle



**Part No. 19169**

Item No.	Qty	Description	Part No.
1	1	Handle	19141
2	1	Velcro Plate	17255
3	2	Lock Bar	19134
4	4	Knob VCT. 40-6-M8	19166
5	4	Washer	BRB 8.4 HB 200fzb
6	2	Plug	22Ø

## 10 Technical Specifications

- Stroke 1375mm (54"), 1875mm (72")
- Lowest height w. platform 50mm (2") (140mm (5.5") load platform moved up)
- Lifting height 1430mm(56"), (1570mm (61.8"), 1930mm (76"))
- Lifting speed empty 100mm/sek (4"/sec)
- Max. load As Noted
- Weight of unit 70-90kg (155-200-lbs)
- Voltage 24V DC
- Outlet Voltage 110V AC 60 Hz,
- Intermittence 15% per 10 min.
- The measured square value for vibrations while lifting does not exceed 2,5 m/s<sup>2</sup>.
- The noise level while lifting does not exceed 70 dB(A).
- A CE Compliance is submitted with each delivery.
- CE-mark.
- Machine sign indicating manufacturer, year and serial number is on every lifting device.

Material: Lifting mast is aluminum.  
End-Effector in stainless steel, 18/8

## 11 Declaration of Conformity

### Referring to Directive for machines 89/392/EEC with addendum - appendix 2A

**Supplier:** **R on I, Inc.**  
 Company  
**8001 Tower Point Drive, Charlotte, NC 28227**  
 Address

**Description of machine:** **Lift-N-Glide™, Serial number** \_\_\_\_\_  
 Brand, type, serial number etc.

**Regulations:** **AFS 1993:10 (89/392/EEG) AND (91/368/EEG)**  
 Regulations that the machine approves to.

**Standards:** **EN 292-1, EN 292-2, EN 294, EN 60204-1, EN 349**  
 (when applicable) Applicable harmonized standards  
**IKH 4.30.01 utg 3, SMS 2986**  
 Applicable national standards and specifications

The machine above hereby is assured to be in correspondence of the fundamental demands in the Directive for machines 89/392/EEC with addendum, respectively be in correspondence with the very machine that has gone through Common market control by an institution as above.

**Signature:** \_\_\_\_\_

## 12 Test Protocol

- Proof loaded with 160 kg (350-lbs). The overload protection operates.
- The slide stops correctly when it goes to the top end position with and without load.
- The break function in the slide works at the lower end position, and if the load platform is hold and is moving downward.
- The maneuvering handle is adjustable and is in fixed position when locked.
- Surface condition.
- Machine plate - signs - language.
- The sound level from motor and stand is normal.
- Accessories - check order / requisition.
- Manuals, including; Declaration of Conformity - Instructions for Assembly instructions.

Serial number: ..... Date of delivery: .....

Approved by: ..... Date: .....